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### DNA Mapping Using Microfluidic Stretching and Single-Molecule Detection of Fluorescent Site-Specific ...

EY Chan, NM Goncalves, RA Haeuser, AJ Hatch, JW ... - Genome Research, 2004 - Cold Spring Harbor Lab

... hydrodynamic forces generated in laminar flow by a ... DNA resists further elongation quite strongly ... consistent with complete DNA stretching, because insensitivity ...

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### Methods and apparatus for characterization of single polymers

EY Chan, LC Gleich, PS Wellman - US Patent App. 09/875,779, 2001 - Google Patents

... velocities of single elongated polymers traveling in a flow. ... Stretching or elongation of the polymer can be ... The stretching forces on the polymer are such that ...

Cited by 1 - Related articles - Web Search - All 9 versions

### Advanced microfluidics

M Fuchs, J Larson - US Patent App. 10/821,664, 2004 - Google Patents

... 4 is a graph of applied elongation force versus percent of ... 14 is a view of two opposed laminar flows impinging ... Such opposed flow can alter the flow of fluid ...

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### Direct haplotyping using carbon nanotube probes

CM Lieber, AT Woolley, Ji Hahm, D Housman - US Patent App. 09/951,133, 2001 - Google Patents

... Al Figure 1 B -a' aA Elongation +- \b ^ B ... on a silicon substrate using the controlled flow within a ... more nucleobase sequences of a probe or component polymer. ...

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### Nano-PCR: methods and devices for nucleic acid amplification and detection

A Goel - US Patent App. 11/128,301, 2005 - Google Patents

... ssDNA template by applying stress, ie stretching or tension. ... anchored at one end in a fluid flow. ... acid polymers providing that the polymers contain nucleobases ...

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### Conformation, Length, and Speed Measurements of Electrostatically Stretched DNA in Nanochannels

CH Roccus, SM Stavits, JT Mannon, LP Walker, HG ... - Biophysical Journal, 2008 - Biophysical Soc

... Aldrich) to reduce both electroosmotic flow and nonspecific ... as a function of folding, stretching and speed ... Elongation and folding caused by interactions with ...

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### Microfluidic apparatus, systems, and methods for performing molecular reactions

N Sundararajan, L Sun, Y Zhang, X Su, S Chan, TW ... - US Patent App. 10/815,264, 2004 - Google Patents

... of synchronization in multi-molecule polymer reactions (eg ... The released bead can

then flow downstream and ... include an amino acid, peptide, polypeptide, protein ...

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[PDF] ► [Conjugated polymers, amyloid detection and assembly of biomolecular nanowires](#)

A Herland - [diva-portal.org](#)

... to the combination of conjugated polymers and biological ... exploring combinations of CPs and DNA, but later ... respect to the starting monomeric protein or peptide. ...

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[Bionanofabrication: a Tool for Creating Unique Structures Through In Vitro Polymer Synthesis](#)

SC Delamarre, N Niamsiri, CA Batt - ... [Bionanotechnology: Biological Self-assembly Systems And ...](#), 2006 - [books.google.com](#)

... for bind- ing with a complementary nucleic acid se ... applications over the most common biological polymer, PHB, which ... et al, 2000a), with an elongation to break ...

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[Neutron Scattering from Biomaterials in Complex Sample Environments](#)

J Katsaras, TA Harroun, MP Nieh, M Chakrapani, MJ ... - [Neutron Scattering in Biology: Techniques And Applications](#), 2006 - [books.google.com](#)

... on both ends, to reduce stretching of the ... in complex fluids include: micellar elongation and alignment [77 ... flow through the cell under laminar flow conditions. ...

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**Key authors:** [E Chan](#) - [M Fuchs](#) - [J Larson](#) - [N Goncalves](#) - [R Haeuser](#)

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